GeoVision inc.

The Vision of Security

GV-Cloud IP Camera

User's Manual

- GV-GBL4911

GSERIES-UM-E

GeoVision, Inc.

9F, No. 246, Sec. 1, Neihu Rd.,

Neihu District, Taipei, Taiwan

Tel: +886-2-8797-8377

Fax: +886-2-8797-8335

http://www.geovision.com.tw

December 2024

Scan the following QR codes for product warranty and technical support policy:

[Warranty]   [Technical Support Policy]

Warning and Caution

- If the product does not work properly, contact your dealer or the nearest service center. Never attempt to disassemble the camera yourself. (We shall not be responsible for any problems caused by unauthorized repair or maintenance.)
- Keep away from liquid while use.
- In the use of the product, you must be strict compliance with the electrical safety regulations of the nation and region. When the product is mounted on wall, the device shall be firmly fixed.
- Do not use camera beyond specified voltage range.
- Do not drop the camera or subject it to physical shock.
- Avoid touching the camera lens.
- If cleaning is necessary, use clean cloth to wipe it gently.
- Do not aim the camera at the sun or extra bright place.
- Do not place the camera in extremely hot, cold, dusty or damp locations, and do not expose it to high electromagnetic radiation.
- To avoid heat accumulation, good ventilation is required for operating environment.

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1. Overview
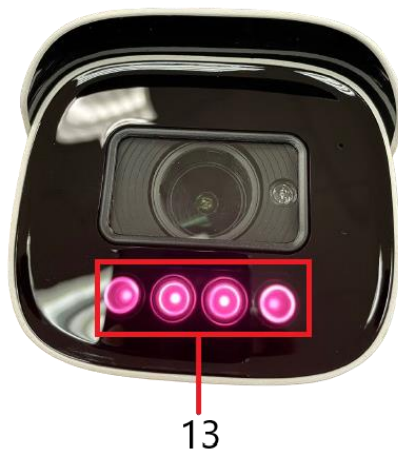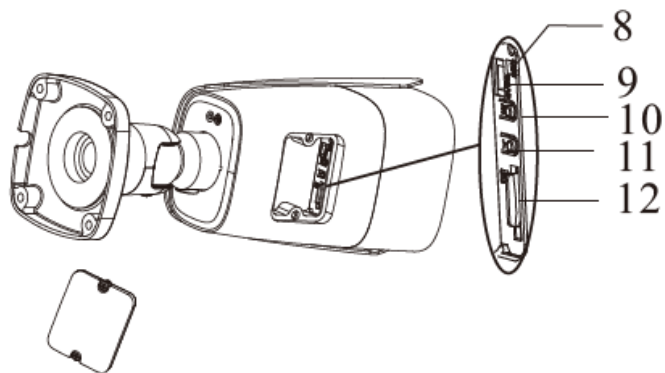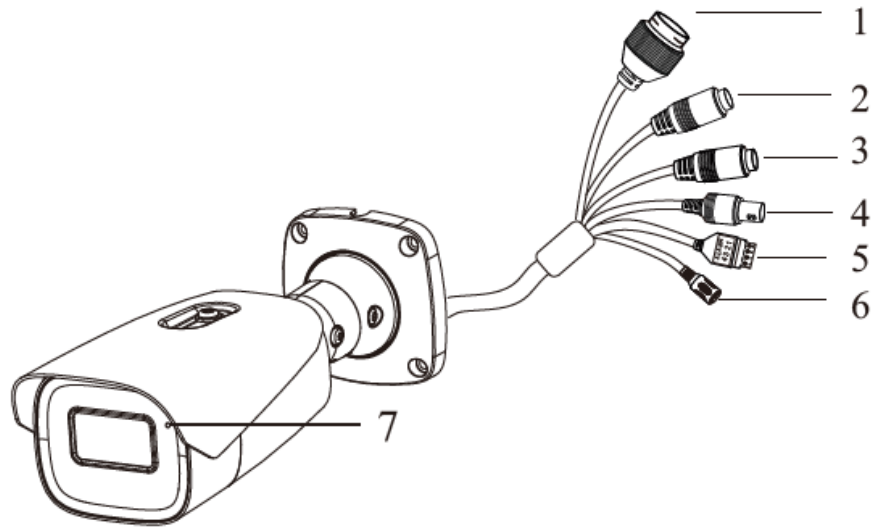
| 1	Ethernet connector (PoE)	8	Default button
2	MIC-Audio input connector	9	DC IN & CVBS interface
3	HP-Audio output connector	10	Zoom -
4	CVBS Video Output	11	Zoom +
5	Alarm input/output	12	microSD card slot
6	Power connector (DC 12V)	13	IR LED x 4 (the 2 LED lights in the middle will be on at long shots)
7	Microphone		

Note:

1. It is recommended to install the waterproof connector for outdoor installation.
2. This series can be powered by DC 12V / PoE power supply. If the PoE switch is used to power the camera, DC 12V power supply is not required.
3. To load default settings, press and hold the default button for 10 seconds.

Alarm Connection

Alarm input: Join the grounding ends of the sensor and the camera and then connect the signal cable of the sensor to the alarm input port of the camera.

Alarm output: Loosen the screws in the alarm output port. Then insert the signal wires of the alarm output devices into the port of COM and OPEN separately. Finally tighten the screws. Some of the external alarm output devices need the power supply.

**Connecting Network Cable**
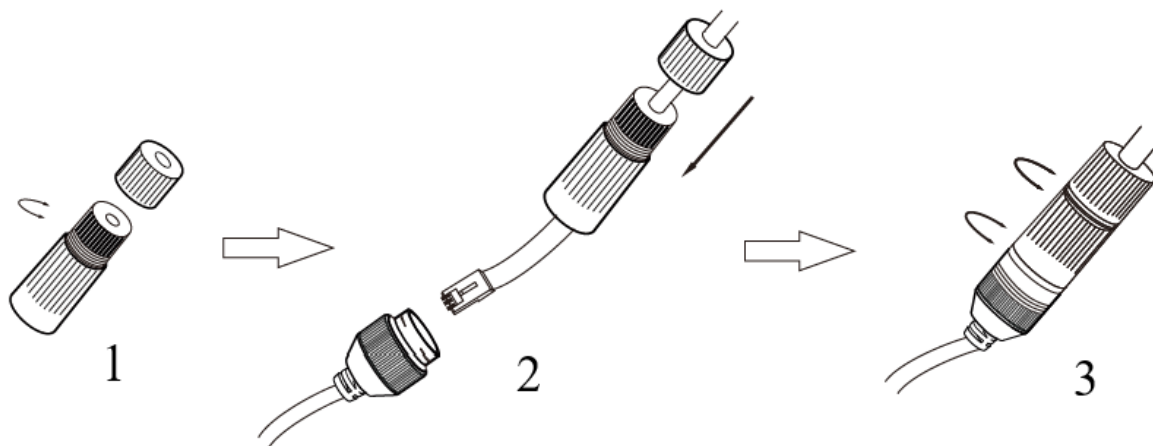
1. Loosen the nut from the main element.
2. Run the network cable (without RJ 45 connector) through the both elements. Then crimp the cable with RJ 45 connector.
3. Connect the cable to the Ethernet connector. Then tighten the nut and the main cover.

2. Installation

Make sure that the wall or ceiling can support at least 3 times the camera's weight and that the installation is done in a dry environment. It's recommended to reinstall the camera cover within 4 hours of removal.

1. Drill the screw holes and the cable hole (if you want to route through the ceiling) on the wall or ceiling according to the drill template.
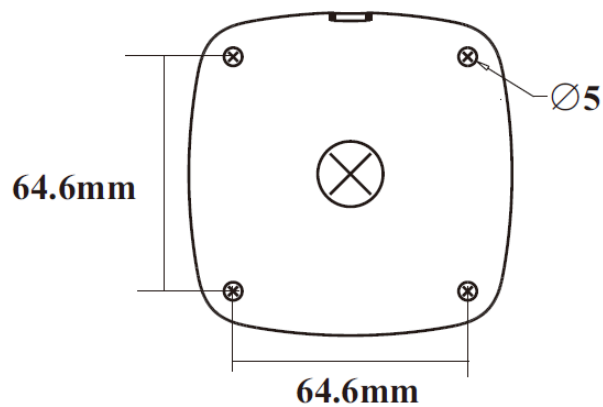

2. Route the cables and connect the relevant cables.
3. Fasten the mounting base to the wall with the screws provided.
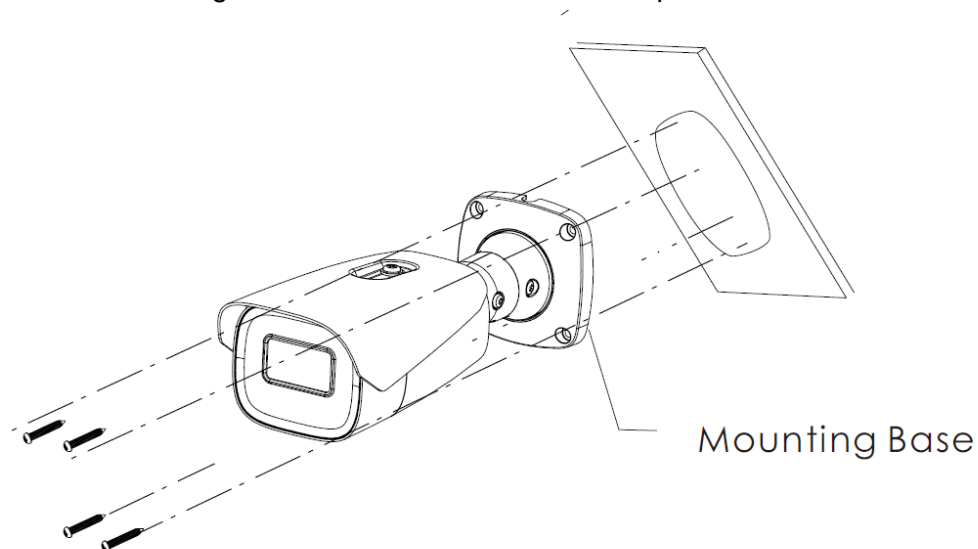
4. Bracket adjustment. Before adjustment, preview the image of the camera on a monitor (see the figure of step 5) and then loosen the lock screws to adjust the view angle of the camera. After that, tighten the lock screws.
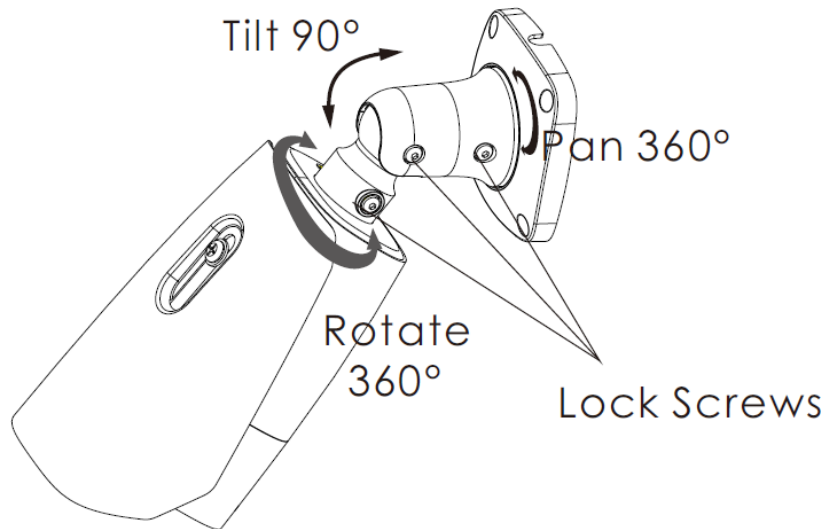
5. Open the cover of the camera as shown in the following figure and then insert a microSD card. After that, press the T or W button to obtain an optimum image. Before adjustment, view the image of the camera on a monitor.
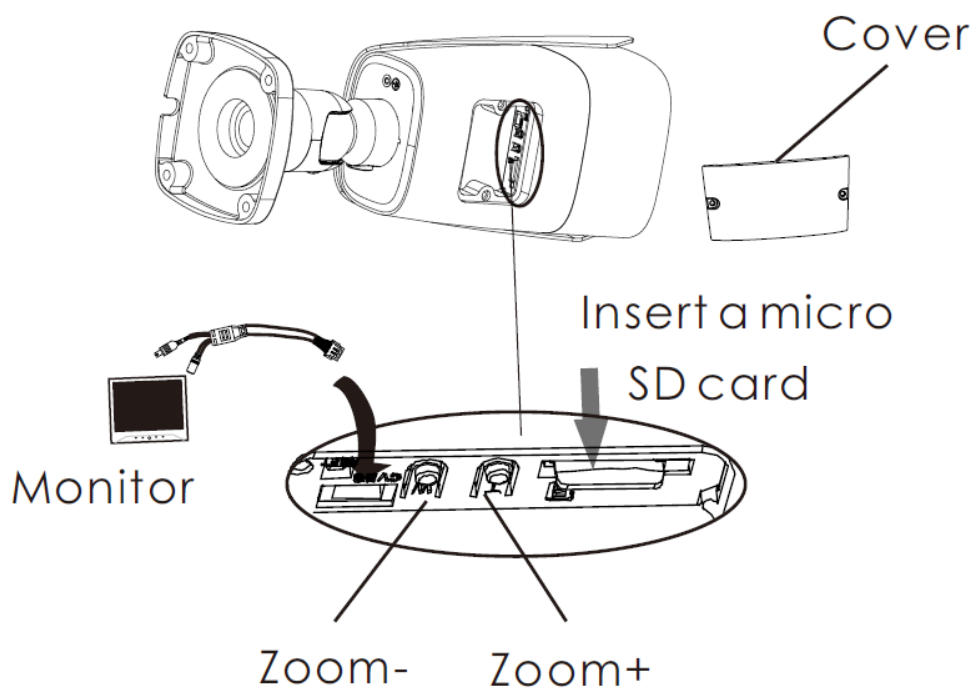
6. Install the cover back to the camera and secure it firmly with the screws.
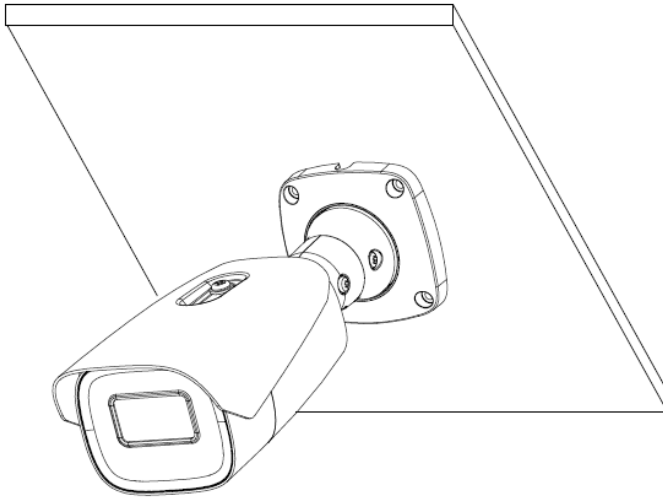
Note: Install the cover back in the same way you disassemble it, in case the sealing performance is affected.

3.   Accessing the Network Camera

3.1   Looking Up the Dynamic IP Address

By default, when the camera is connected to a LAN with the DHCP server, it is automatically assigned with a dynamic IP address. Follow the steps below to look up its IP address.

Note: By default, the Administrator's username is **admin** and cannot be modified.

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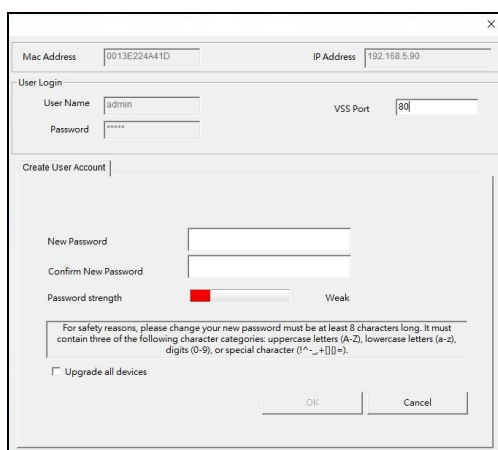
1.   Make sure the PC used to configure the IP address is under the same LAN as the camera. Download and install **GV-IP Device Utility** from the company website.

2.   On the GV-IP Utility window, click the 🔍 button to search for the IP devices connected in the same LAN. Click the **Name** or **Mac Address** column to sort.

3.   Find the camera with its Mac Address, and click on its IP address.

4.   For first-time users, you are requested to create a password.

5.   Type a new password and click **OK**.

6.   Click on its IP address again and select **Webpage** to open its Web interface.

7.   Type the set password on the login page and click **Login**.

IMPORTANT:

1. To change the password using GV-IP Device Utility, click on the camera's IP address, and select **Configure > Change Password**. Or you can optionally change the password on the camera's Web interface by clicking **Config > Security > User**; see "Modify User" in *4.7.1 User Configuration* in the user's manual.

2. The security questions should be set after you log in. It is very important for you to reset your password when you forget your password. If you forget the admin password, you can reset the password by clicking Forget Password on the login page. For more details, see *4.7.1 User Configuration* in the user's manual.

3.2   Configuring the IP Address

If the camera is connected to a LAN without the DHCP server, the default IP address will be **192.168.0.10**. Follow the steps below to modify the IP address to avoid IP conflict with other GV-IP devices on the same LAN.

1. Open your Web browser, and type the default IP address **192.168.0.10**.
2. Type the default username **admin** and a password. Click **Login**.
3. Go to **Config** > **Network** > **TCP/IP** to set the IP address.
4. Select **Use the following IP address** and then enter the static IP address and other parameters.

4. The Web Interface

After logging in, the following window will be shown.

> **Note:** Main stream, local recording, two-way audio, and the preview mode switch (real-time / balanced / fluent mode) are only supported in the browsers supporting plugins.

For GV-GBL4900 / GBL4911 / GDR4900 / GEB4900 / GEBF4911 / GVD4910:
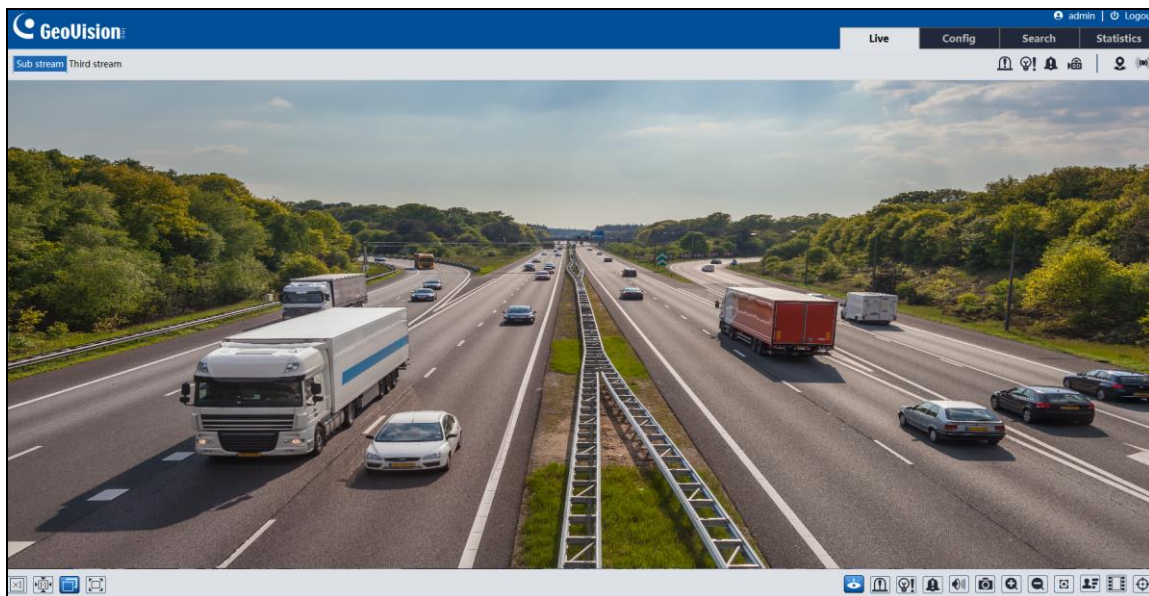
For GV-GFER4900:

Before you view the live image, set the stream mode and installation method as needed (see *4.1.5 Configuring Fisheye Parameters* in the user's manual for details). In the live mode, the different streams and live view modes can be switched as needed.
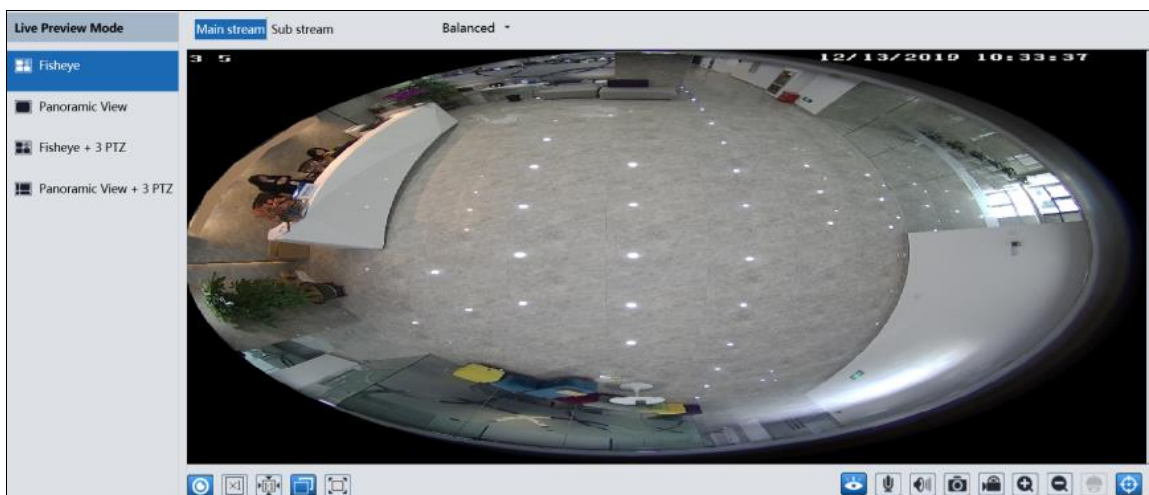
The following table is the instructions of the icons on the live view interface.

Icon	Description	Icon	Description
⊙	Select live preview mode (only for **GV-GFER6900**)	(◉)	Sensor alarm indicator
×1	Original size	🏃	Motion alarm indicator
▸1:1◂	Fit correct scale	🎨	Color abnormal indicator (not applicable to **GV-GFER6900**)
⧉	Adapt	🔔	Abnormal clarity indicator (not applicable to **GV-GFER6900**)
⧈	Full screen	▨	Scene change indicator (not applicable to **GV-GFER6900**)
🔔	Enable/disable alarm output (not applicable to **GV-GFER6900**)	🔔	Alarm output indicator (not applicable to **GV-GFER6900**)
💡!	Enable/disable light alarm (only for **GV-GEBF4911**)	💡!	Light alarm indicator (only for **GV-GEBF4911**)
🔔	Enable/disable audio alarm (not applicable to **GV-GFER6900**)	➡	Line Crossing indicator
👁	Start/stop live view	📍	Region Intrusion indicator
🎤	Start/stop two-way audio (only available in the browsers supporting plugins)	➡|	Region Entrance indicator
🔊	Enable/disable audio	⇤	Region Exiting indicator
📷SD	SD card recording indicator	👤	Face detection indicator (not applicable to **GV-GFER6900**)
📷	Snapshot	📈	Target Counting by Line indicator
🎥	Start/stop local recording (only available in the browsers supporting plugins)	📉	Target Counting by Area indicator (not applicable to **GV-GFER6900**)
⊕	Zoom in	⊕	Object detection indicator (object Abandoned/Missing) (not applicable to **GV-GFER6900**)
⊖	Zoom out	👥	Crowd density indicator (only for **GV-GFER6900**)
⊡	AZ control (only for **GV-GEBF4911**)	◎	Heat map indicator
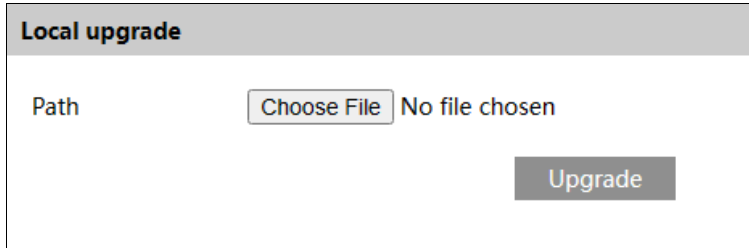
Icon	Description	Icon	Description
PTZ control icon	PTZ control	Loitering icon	Loitering detection indicator (not applicable to **GV-GEBF4911 / GFER6900**)
Face Detection icon	Face Detection (not applicable to **GV-GFER6900**)	Illegal parking icon	Illegal parking detection indicator (not applicable to **GV-GEBF4911 / GFER6900**)
Rule information icon	Rule information display	Video metadata icon	Video metadata extraction indicator (not applicable to **GV-GFER6900**)

For detailed information, see *Chapter 3 Live View* in the user's manual.

5. Upgrading System Firmware

GeoVision periodically releases updated firmware on the company website. To load the new firmware into the camera, follow the instructions below.

1. On the Web interface, click **Config** > **Maintenance** > **Upgrade.**

Local upgrade

Path	Choose File No file chosen
	Upgrade

2. Click the **Choose File / Browse** button to locate the firmware file saved at your local computer.

3. Click the **Upgrade** / **Back up and upgrade** button to start upgrading the firmware.

4. After upgrading, the camera will restart automatically.

Note:
1. Do not allow downgrading from the current version to the lower version.
2. Do not close the browser or disconnect the camera from the network during the upgrade.
3. If "Back up and upgrade" is selected, the configuration file will be exported to your local PC before starting upgrading.

6. Restoring to Factory Default

If for any reason the camera is not responding correctly, you can restore the camera back to its factory default settings using the Web interface or the Load Default Button.
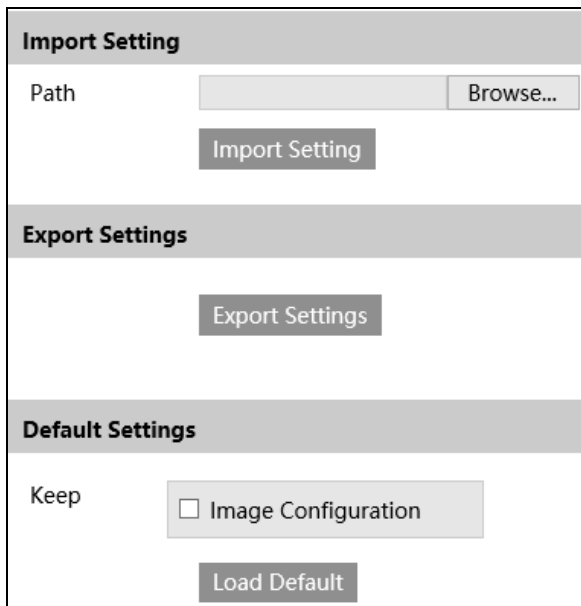
On the Camera

1. Find the **Load Default** button on the camera (see *Chapter 1 Overview*).
2. Press and hold the button for more than 10 seconds to restore to the factory default setting.

On the Web Interface

For GV-GEBF4911

1. On the Web interface, click **Config** >**Maintenance** > **Backup and Restore**.
2. Click the **Load Default** button to restore all system settings to factory default, except the image settings (see *4.2 Image Configuration* in the user's manual for details) you want to keep.

For GV-GBL4900 / GBL4911 / GDR4900 / GEB4900 / GFER6900 / GVD4910
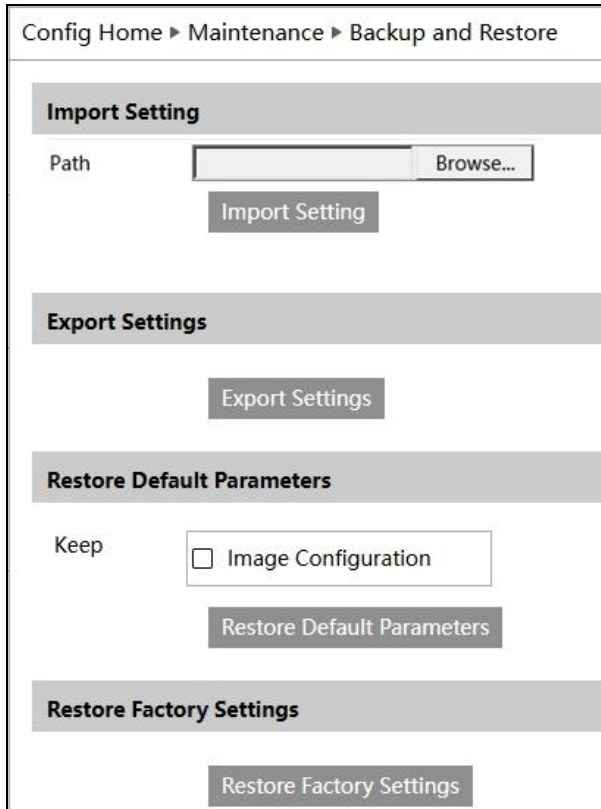
1. On the Web interface, click **Config** >**Maintenance** > **Backup and Restore**.

2. Click **Restore Factory Settings** and then verify the password to restore all system settings to the default factory settings. Or, select **Keep Image Configuration** to remain passwords and image configurations after restoring defaults.

7. Connecting to GV-Cloud VMS

To connect the camera to GV-Cloud VMS, follow the steps below.

Note:

1. **Motion Detection** is required for GV-Cloud connection. The event is enabled by default for the following scenarios:
   i.   When the camera is successfully connected to GV-Cloud
   ii.   When the camera reconnects to GV-Cloud after disconnection
   iii. When the camera is rebooted after connecting to GV-Cloud
2. The following events are supported on GV-Cloud VMS:
   A. **GV-GBL4900 / GBL4911 / GDR4900 / GEBF4911 / GFER6900 / GVD4910:** Motion Detection, Line Crossing, Region Entrance, Region Exiting, Region Intrusion, Video Exception (Scene Change / Video Blur Detection), I/O events
   B. **GV-GEB4900:** Motion Detection, Line Crossing, Region Entrance, Region Exiting, Region Intrusion, Video Exception (Scene Change / Video Blur Detection)
3. When connecting to GV-Cloud VMS, avoid connecting to other GV-Software at the same time.

On GV-Cloud

1. Finish the sign-up procedures on GV-Cloud and sign in.
2. Add the license plans you have purchased.
3. Click the GV-Cloud icon → **Cloud VMS**.
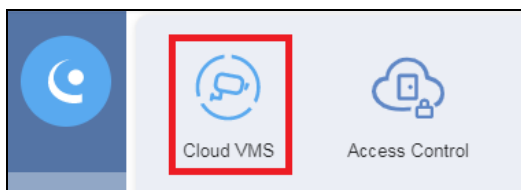
4. Select **Host** in the left menu, and click [+] in the upper right corner. This dialog box appears.
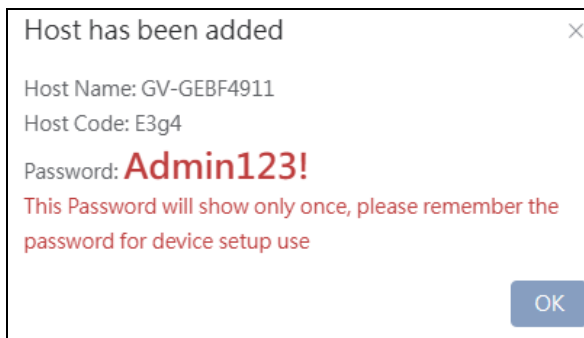

5. Type **Display Name, Password** (to be the host's GV-Cloud login password), and select **Time Zone** for the host. The rest information is optional.

6. Click **Send**. The message "Host has been added" will appear. Keep the created **Host Code** and **Password** for connecting to GV-Cloud on the camera.
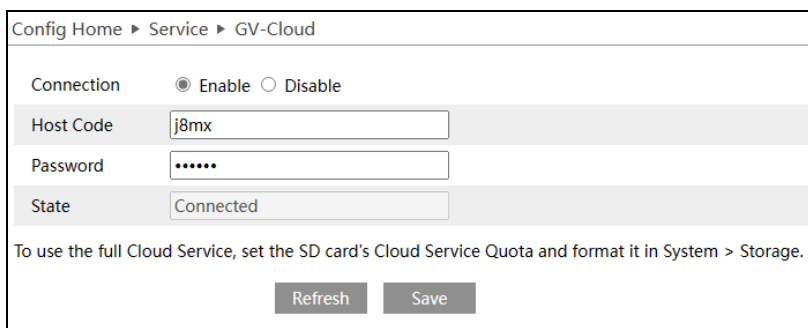

On the Camera's Web Interface

1. Go to **Config** > **Service** > **GV-Cloud**.

2. Enable the Connection and fill in the **Host Code** and **Password**.

3. Click **Save** and **Refresh** to set up and refresh the connection.

4. Go to **Config** > **System** > **Storage** to set up the service quota from the camera's SD card for the snapshots and recordings uploaded onto GV-Cloud VMS. For details, see *4.1.4 Storage* in the user's manual.

Management	Record	Snapshot

Total picture capacity	4881 MB
Picture remaining space	0 MB
Total recording capacity	43840 MB
Record remaining space	43584 MB
State	Normal
> Device Quota	10 %
Cloud Service Quota	90 %

Changes in the quota ratio need to be formatted before they become effective.

Eject   Format

Note: It is recommended to set the Cloud Service Quota to 90% to prioritize cloud storage over the camera's storage.

8. Connecting to GV-Center V2

To connect to GV-Center V2, follow the steps below:

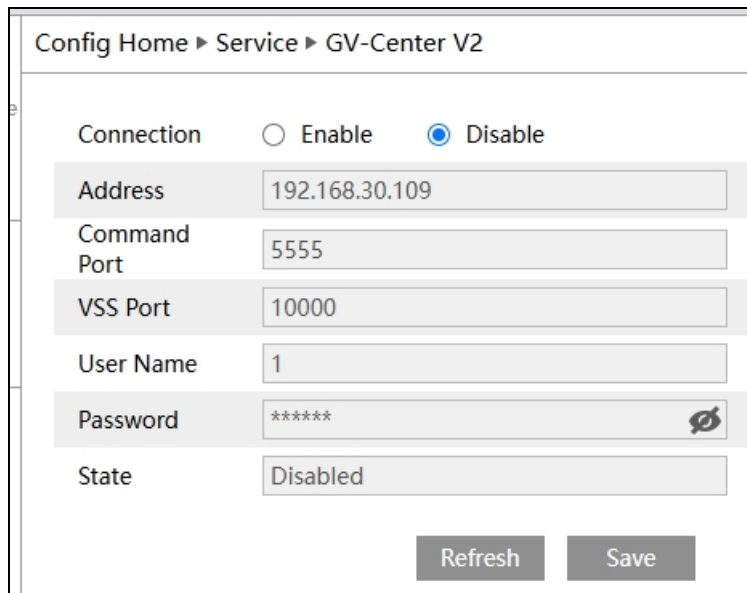**Note:** The following events are supported on GV-Center V2:

1. **GV-GBL4900 / GBL4911 / GDR4900 / GEBF4911 / GFER6900 / GVD4910:** Motion Detection, Line Crossing, Region Entrance, Region Exiting, Region Intrusion, Video Exception (Scene Change Detection), I/O events

2. **GV-GEB4900:** Motion Detection, Line Crossing, Region Entrance, Region Exiting, Region Intrusion, Video Exception (Scene Change Detection)

On GV-Center V2

Create at least one subscriber before starting Center V2 services. See *1.4.1 Creating a Subscriber* in the *GV-CMS Series User's Manual*.

On the Camera's Web Interface

1. Go to **Config** > **Service** > **GV-Center V2**.

2. Enable the connection and type the IP Address of GV-Center V2, User Name, and Password set up in GV-Center V2 for the camera as a subscriber.
3. Click **Save** and **Refresh** to set up and refresh the connection.